UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/758,391	01/16/2004	Hideo Narita	04853.0110	6069	
22852 7590 03/20/2007 FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER LLP 901 NEW YORK AVENUE, NW WASHINGTON, DC 20001-4413			EXAMINER		
			JOYCE, WILLIAM C		
			ART UNIT	PAPER NUMBER	
			3682		
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE		
3 MONTHS		03/20/2007	PAF	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
	10/758,391	NARITA ET AL.				
Office Action Summary	Examiner	Art Unit				
	William C. Joyce	3682				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on <u>16 February 2007</u> .						
	action is non-final.					
3) Since this application is in condition for allowan	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) <u>1-8</u> is/are pending in the application.						
4a) Of the above claim(s) <u>3 and 5-8</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1,2 and 4</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>16 January 2004</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.						
Applicant may not request that any objection to the o						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ⊠ All b) □ Some * c) □ None of:						
1.⊠ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
·						
Attachmant/a						
Attachment(s)  1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08)  5) Notice of Informal Patent Application						
Paper No(s)/Mail Date 6)						

#### **DETAILED ACTION**

This is the First Office Action in response to the Election filed on February 16, 2007.

#### Election/Restrictions

- 1. Claims 3 and 5-8 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected species, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on February 16, 2007.
- 2. Applicant's election with traverse of Group I in the reply filed on February 16, 2007 is acknowledged. The traversal is on the ground(s) that examining all claimed inventions would not be a serious burden on the examiner. This is not found persuasive because each disclosed species has a separate subject of inventive effort and therefore is considered to be diverging subject matter. The disclosed species may be classified together, but examining the diverging subject matter of each disclosed species is considered a serious burden on the examiner.

The requirement is still deemed proper and is therefore made FINAL.

### **Priority**

3. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Application/Control Number: 10/758,391

Art Unit: 3682

# **Drawings**

Page 3

4. Figure 8 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

### Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being anticipated by Austin (GB 2 126 559).

Austin illustrates an articulated robot comprising a plurality of joint arms connected to one another, wherein the joint arms are connected to one another via a first rotating shaft (92) at at least one location and via a second rotating shaft (94) at at least one location, the axis of the second rotating shaft being inclined relative to the axis

Art Unit: 3682

of the first rotating shaft, and wherein each rotating shaft is provided with a motor for driving the rotating shaft and with a speed-reducing mechanism.

7. Claims 1, 2, and 4 are rejected under 35 U.S.C. 102(b) as being anticipated by Akeel (USP 5,293,107).

Referring to Figure 8, Akeel illustrates an articulated robot comprising a plurality of joint arms (148,150,152,154,156), wherein the joint arms are connected to one another via motorized joint mechanisms (134,136,138, 140,142,144), each of the motorized joint mechanism having a rotating shaft (see Figs. 1 and 3), wherein the motorized joint mechanisms comprise a planetary speed reducer.

Figure 8 shows the rotating shaft of the motorized joint mechanism (136) positioned at a right angle with respect to the rotating shaft of the motorized joint mechanism (140). However, it is also understood the motorized joint mechanism (136) can be positioned at an inclined angle with respect to the rotating shaft of the motorized joint mechanism (140). For example, If the motorized joint mechanism (138) is rotated, then the axis of the motorized joint mechanism (136) will be inclined with respect to the motorized joint mechanism (140).

Figure 8 illustrates the motorized joint mechanism having a hollow part for passing a cable.

Figure 8 shows joint arms (148,152) having two motor mechanisms and joint arm (150) having no motor mechanisms.

Application/Control Number: 10/758,391

Art Unit: 3682

# Conclusion

Page 5

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Note the inclined joints of Larsson (USP 4,904,148). Note the joint arrangement of Terada et al. (USP 6,250,174).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William C. Joyce whose telephone number is (571) 272-7107. The examiner can normally be reached on Monday - Thursday 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Ridley can be reached on (571) 272-6917. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

William C. Joyce